

Europäisches Patentamt European Patent Office Office européen des brevets



(11) **EP 0 972 499 A3**

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: **28.03.2001 Bulletin 2001/13**

(51) Int CI.7: **A61F 2/46**, B01F 13/00

(43) Date of publication A2: 19.01.2000 Bulletin 2000/03

(21) Application number: 99850119.1

(22) Date of filing: 08.07.1999

(84) Designated Contracting States:

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Designated Extension States:

AL LT LV MK RO SI

(30) Priority: 13.07.1998 US 114592

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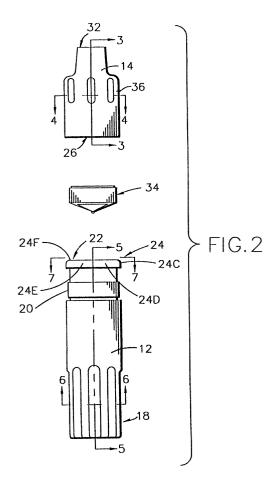
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(54) Disposable monomer dispenser and vial breaker

(57)A monomer dispenser and vial breaker (10) includes a base portion (12) and a cap portion (14) which is attachable to the base portion (12). The base portion (12) is substantially cylindrical, has an inner seat (16) for supporting the shoulder (2) of an ampoule (1), a knurled outer gripping surface (18), an exteriorally threaded portion (20), and an open end (22) with a first locking structure (24). The cap portion (14) is substantially cylindrical, has a first open (26) end with interior threads (28) and a second locking structure (30), a second open end (32), with a strainer and a vial breaking structure (34) located between the first (26) and second (32) open ends. The cap portion (14) is also provided with a knurled outer gripping surface (36). The monomer dispenser and vial breaker (10) operate as follows: an ampoule (1) is inserted into the base (12) so that the shoulder (2) of the ampoule (1) rests on the inner seat (16), the cap (14) is pushed onto the base (12) so that locking structures (24,30) engage, and the base (12) and/or the cap (14) are twisted relative to each other so that the threaded portions (20,28) engage. As the cap (14) and base (12) are threaded together, the vial breaking structure (56) breaks the bottom of the ampoule (1). The assembled device (10) is then inverted to dispense the monomer through the second open end (32) of the cap (14). After the dispenser (10) is assembled and the monomer is dispensed, the locking structures (24,30) prevent the device (10) from being disassembled.





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Application Number EP 99 85 0119

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